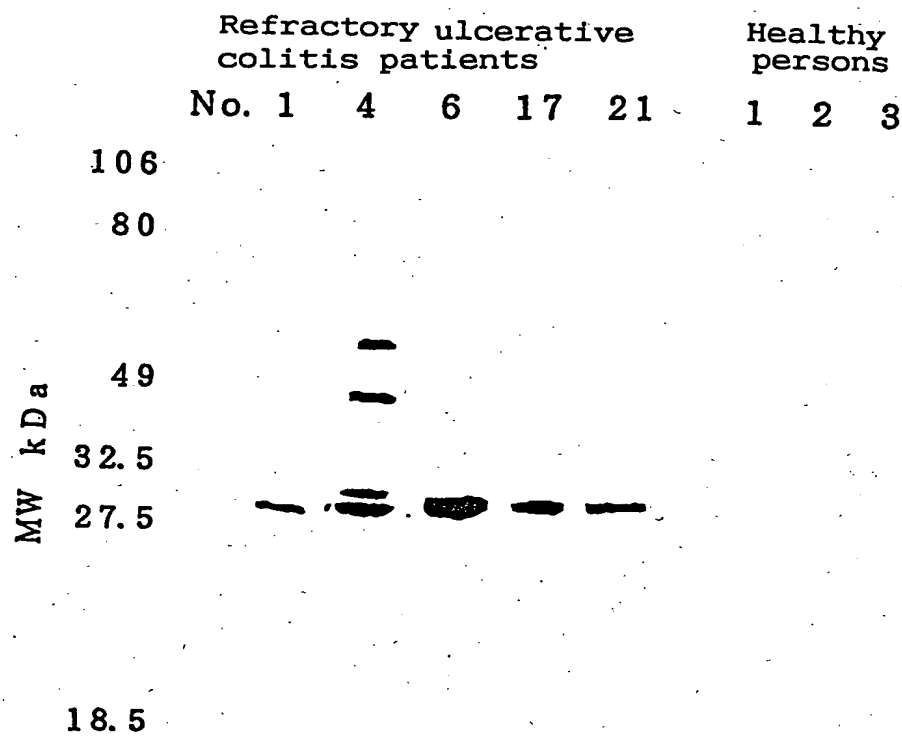


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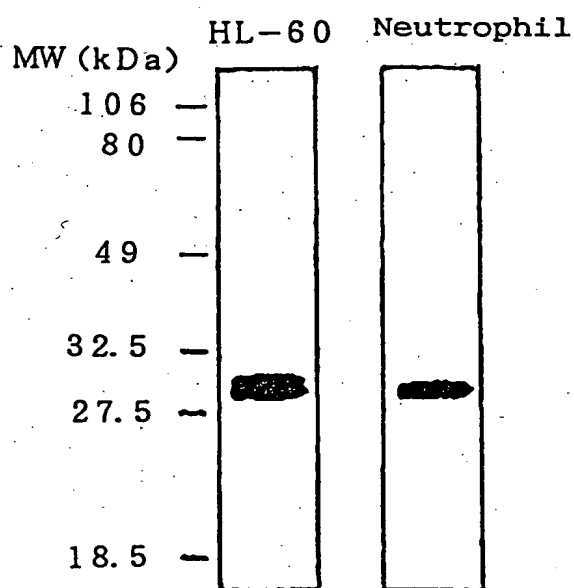
FIG. 1



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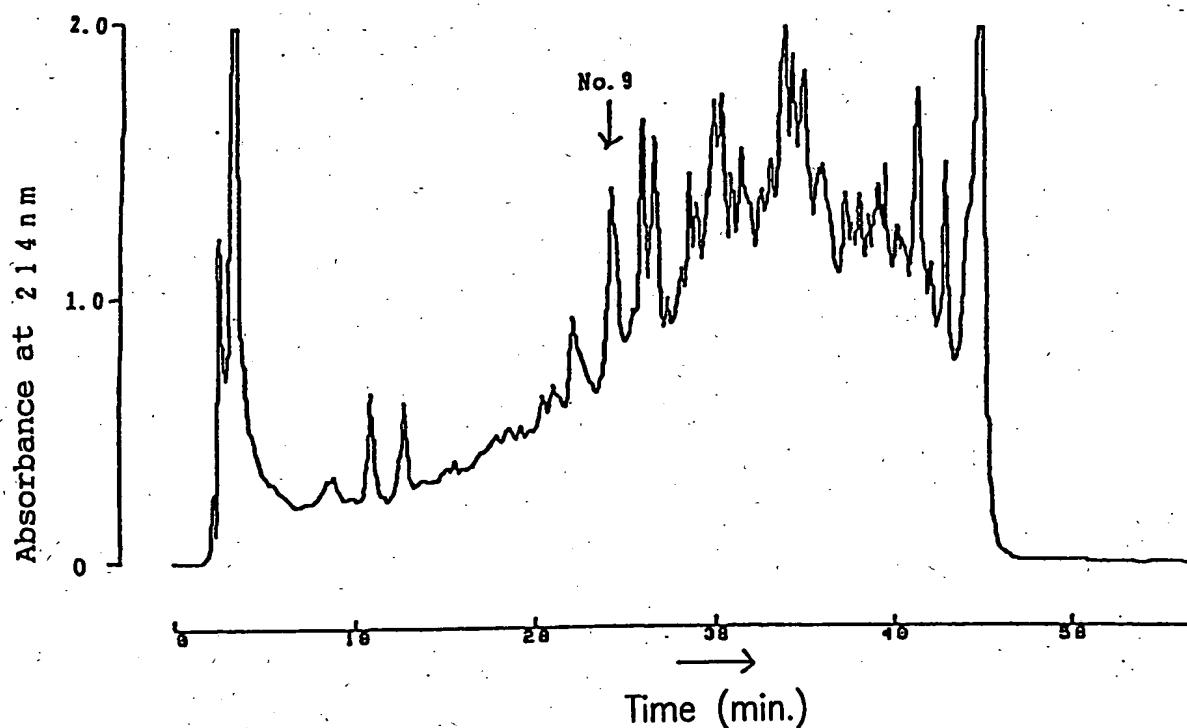
FIG. 2



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FIG.3



Elution conditions Column: YMC-ProteinRP-250X4.6mmID, 5 μ m

Flow rate: 1.5ml/min.

Elution: A: 0.1%TFA, B: 80%CH₃CN/0.1%TFA

20%B \rightarrow 60%B /40min

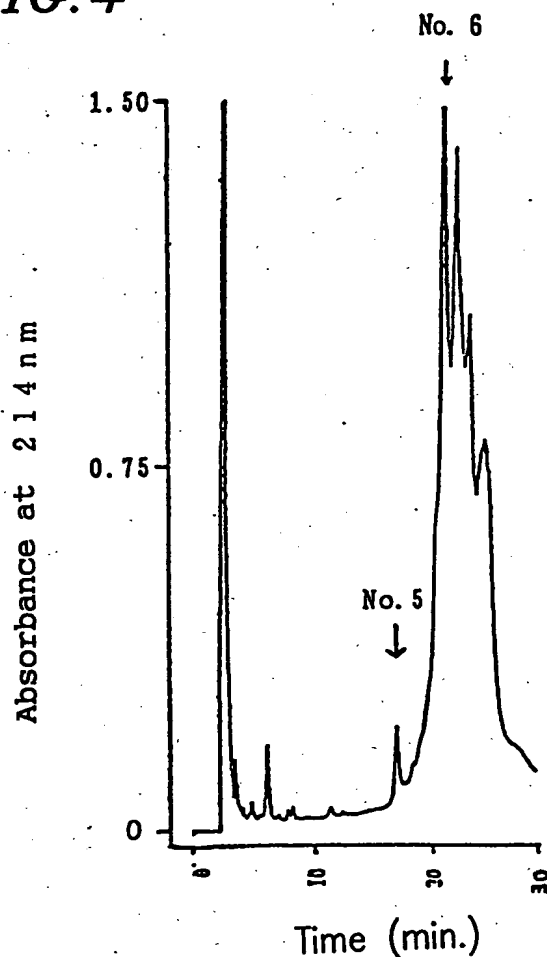
Detection: 214nm

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FIG. 4
CLASS (SUBCLASS)
SOURCE

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FIG. 4



Elution conditions Column: YMC-ProteinRP, 250X4.6mmID, 5 μ m

Flow rate: 1.5ml/min.

Elution: A: 0.1%TFA, B: 80%CH₃CN/0.1%TFA

30%B \rightarrow 45%B / 30min

Detection: 214nm

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FIG. 5

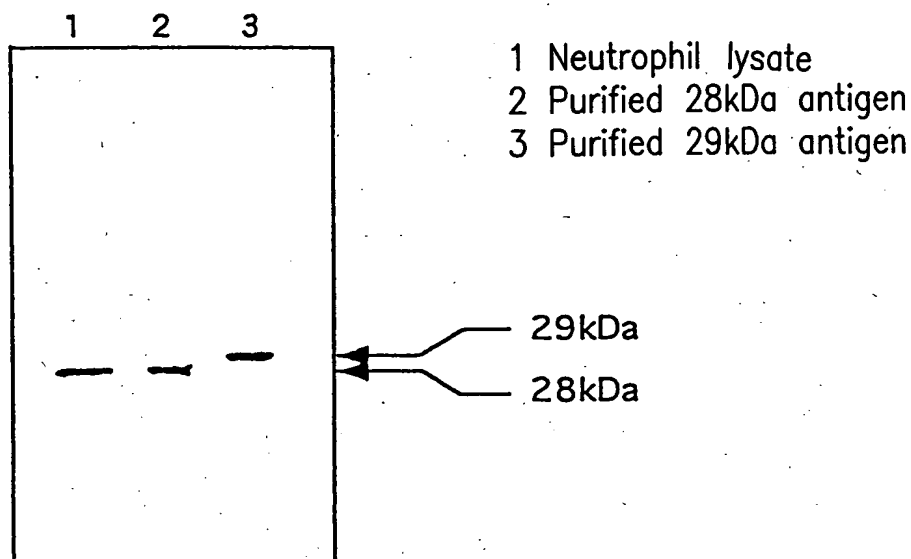
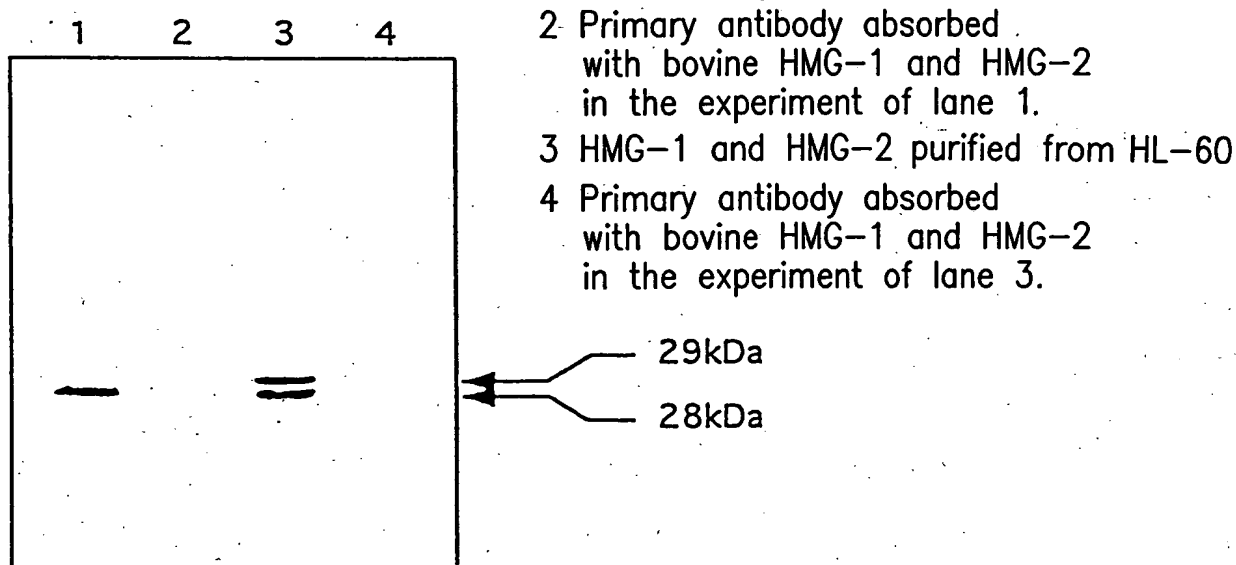


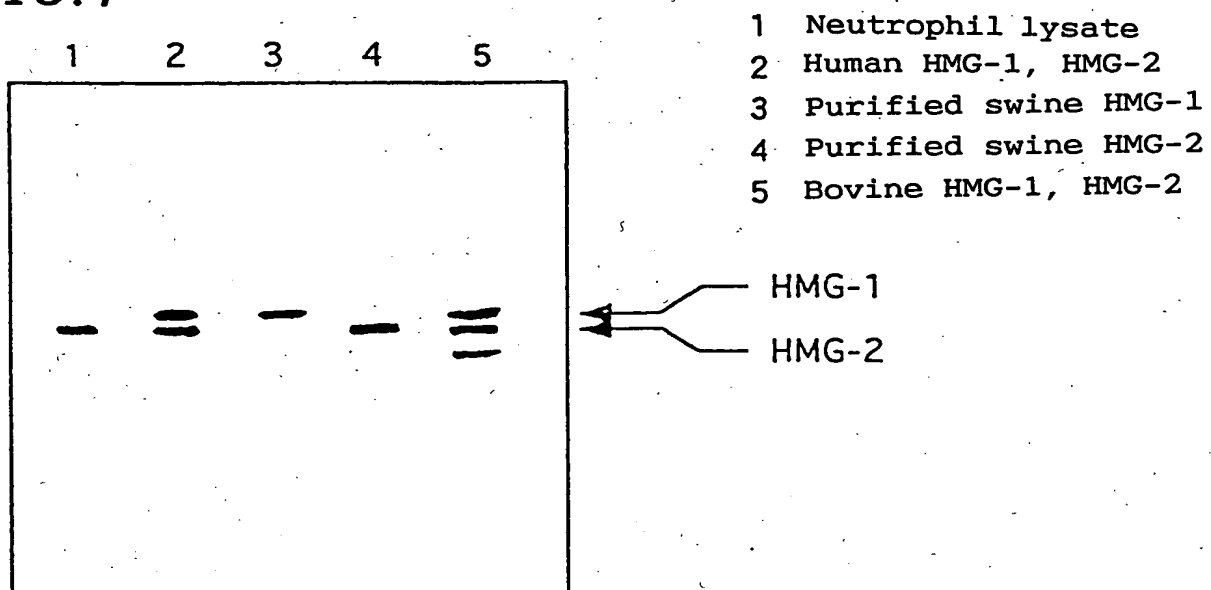
FIG. 6



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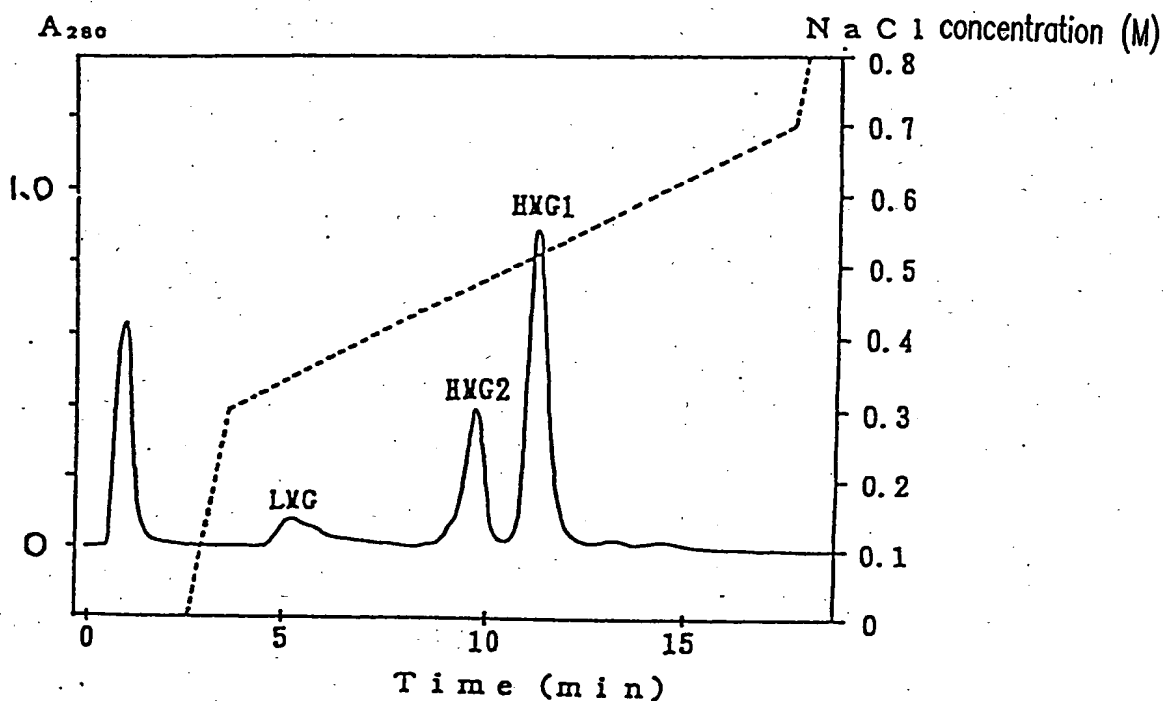
FIG. 7



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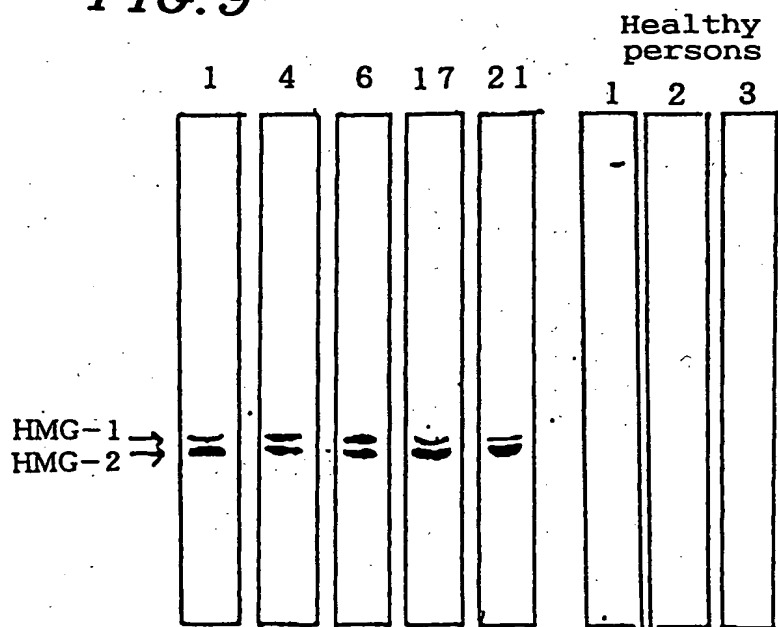
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FIG. 8



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FIG. 9



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APPROVED	010. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

09/214881

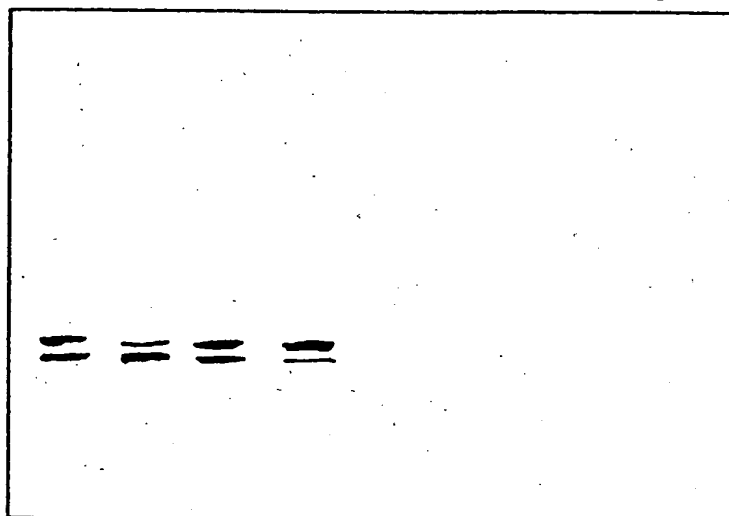
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FIG. 10

Refractory ulcerative
colitis patients

Healthy
persons

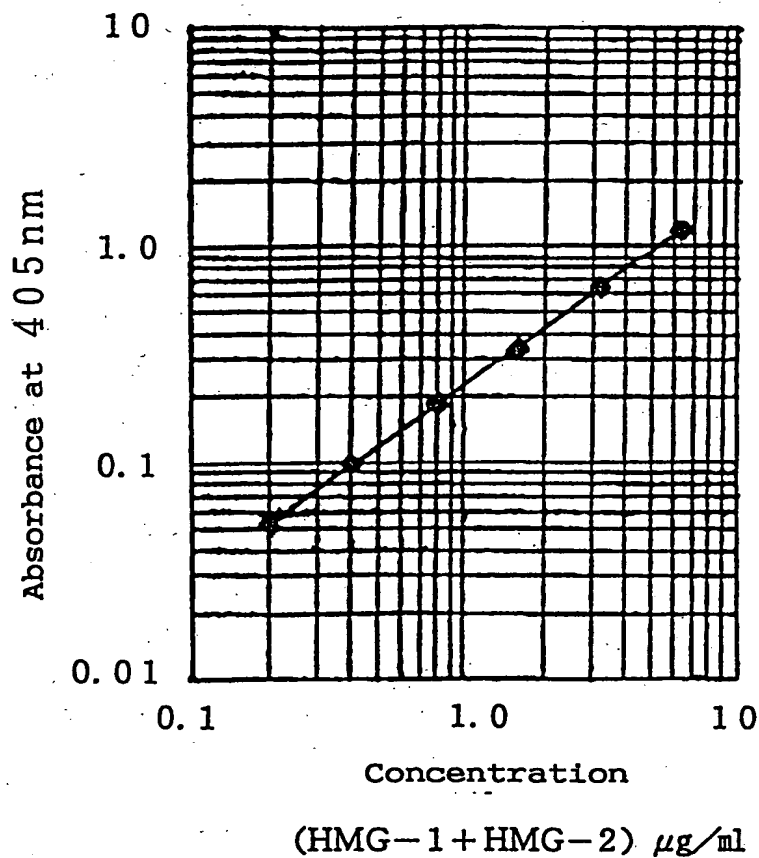
1 4 6 17 21 1 2 3



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FIG. 11



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FIG. 12-1

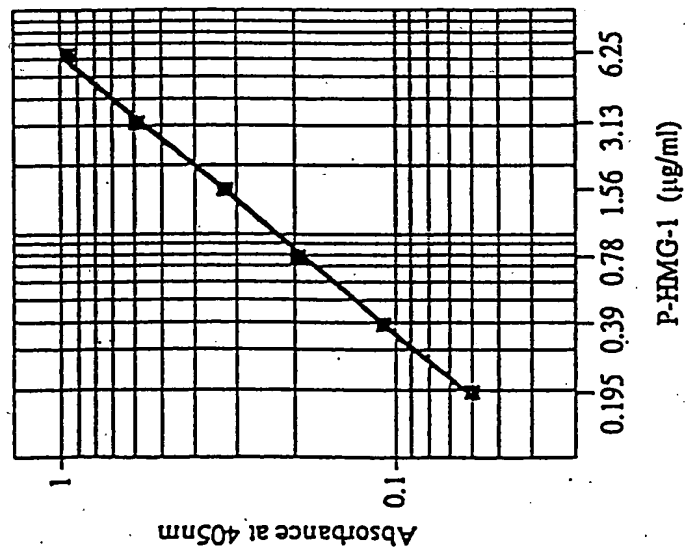


FIG. 12-2

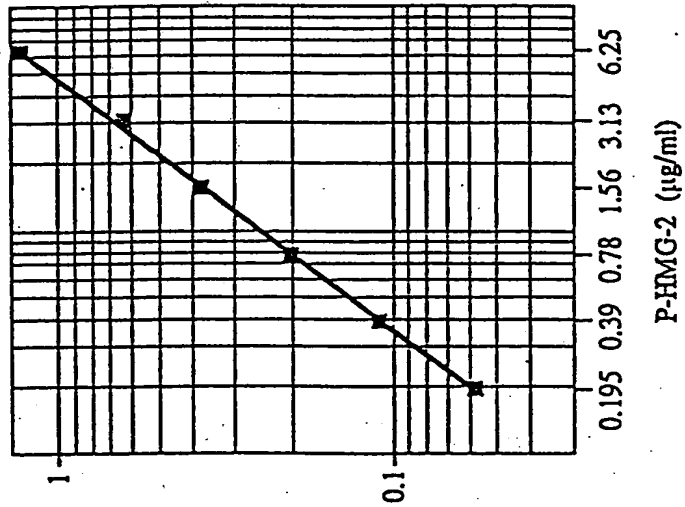
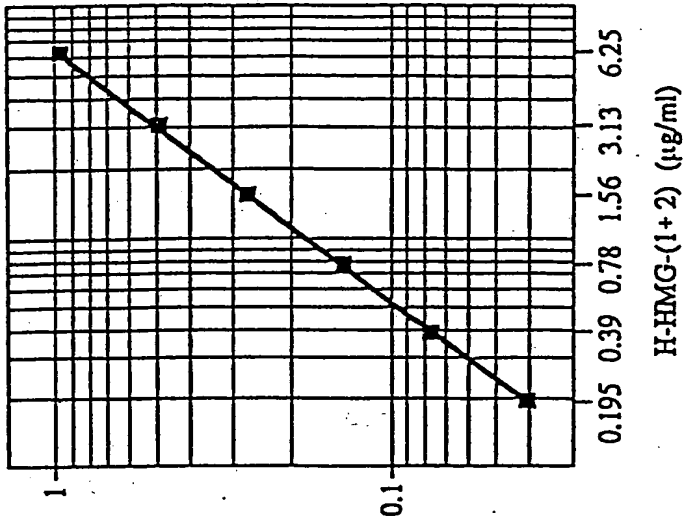


FIG. 12-3

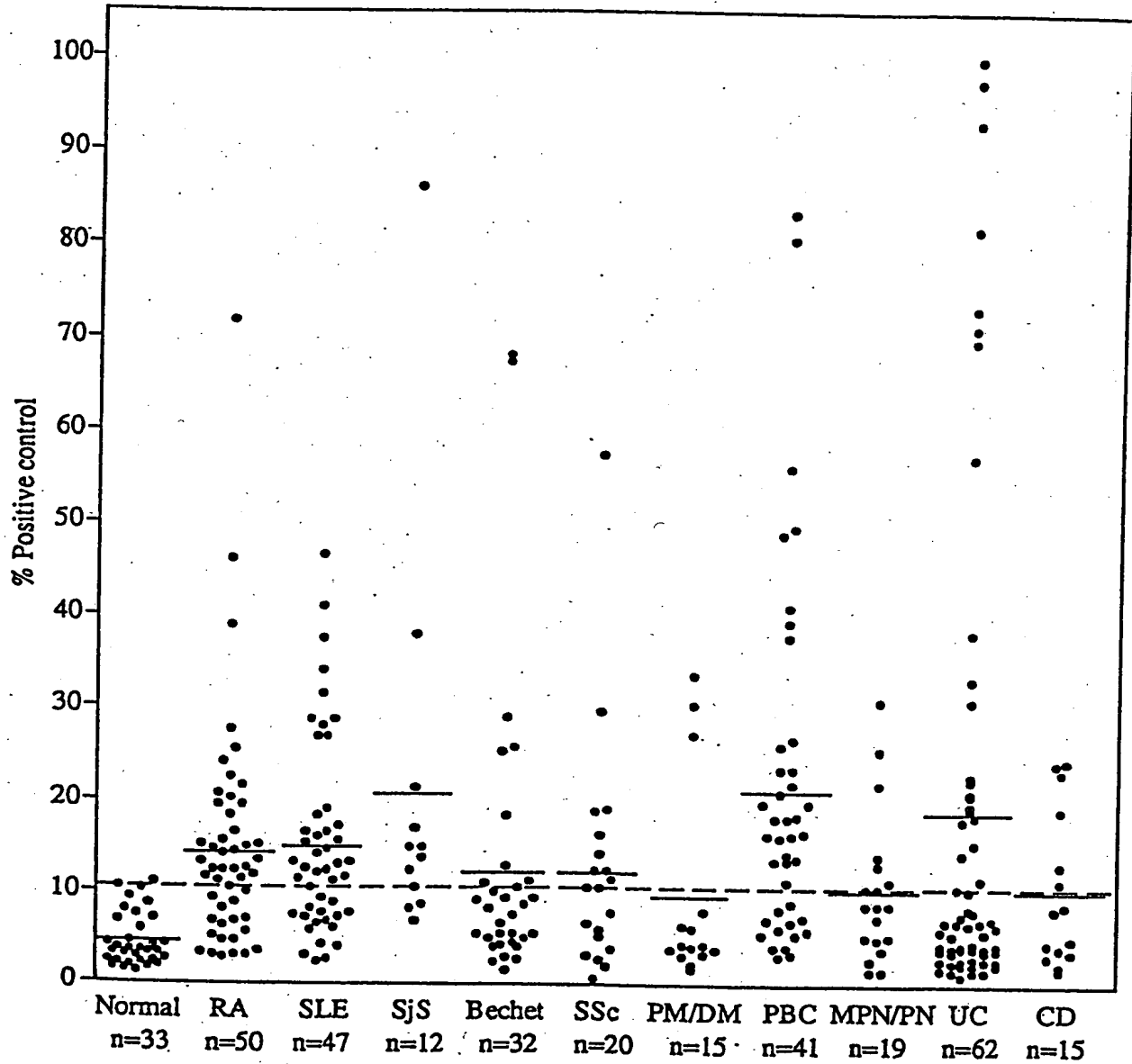


Absorbance at 405nm

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FIG. 13

--- Mean of normal persons+2s.d.
— Average for each disease



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FIG. 14

--- Mean of normal persons+2s.d.
 — Average for each disease

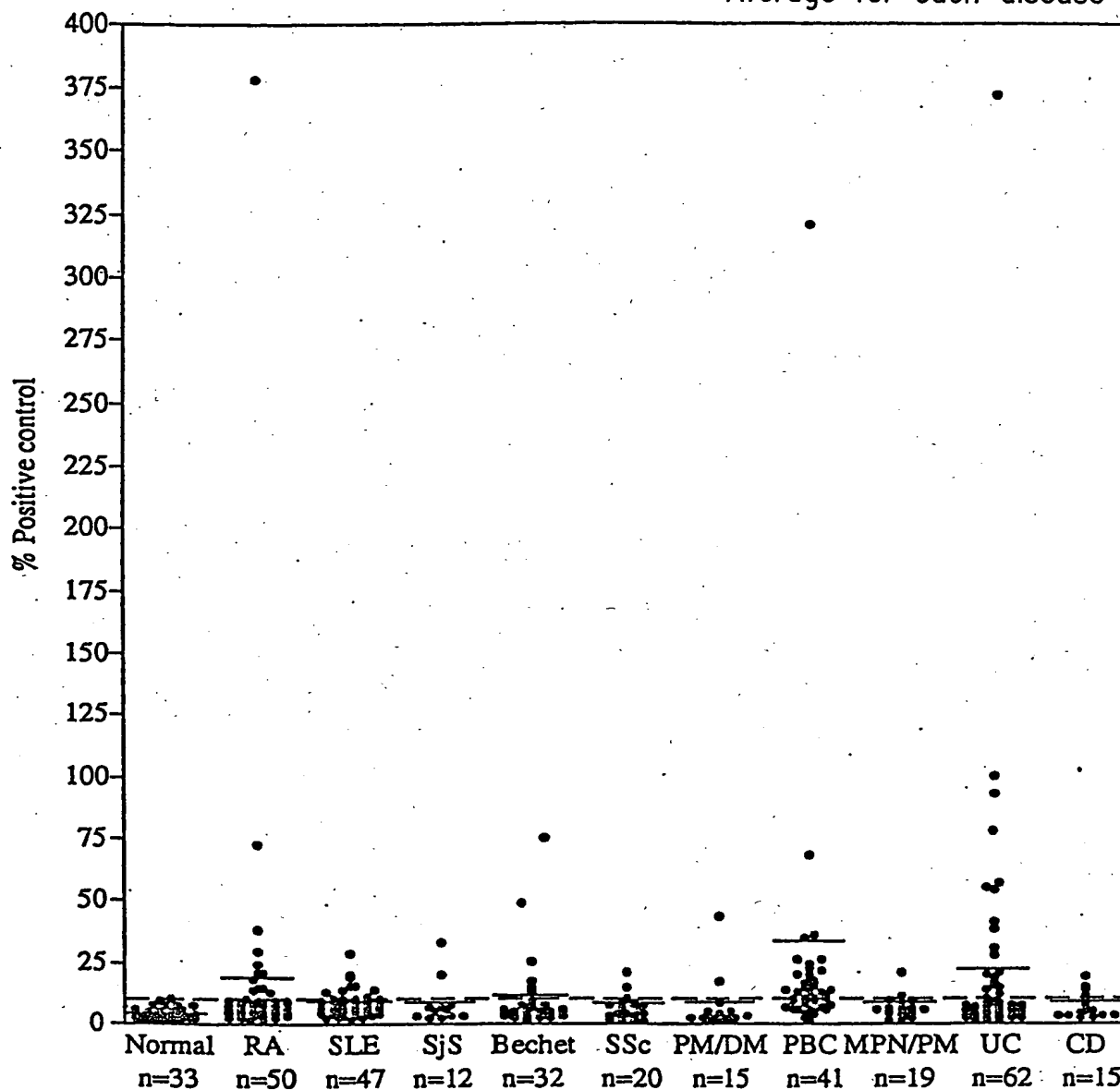


FIG. 15

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Human	1	GKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKT	50
Porcine	1	GKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKT	50
Bovine	1	GKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKT	50
Rat	1	GKGDPPKPRGKMSSYAFFVQTCREEHKKKHPDASVNFSEFSKKCSERWKT	50
Human	51	MSAKEKGKFEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSA	100
Porcine	51	MSAKEKGKFEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSA	100
Bovine	51	MSAKEKGKFEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSA	100
Rat	51	MSAKEKGKFEDMAKADKARYEREMKTYIPPKGETKKKFKDPNAPKRPPSA	100
Human	101	FFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAACL	150
Porcine	101	FFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKHPYEKKAACL	150
Bovine	101	FFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAACL	150
Rat	101	FFLFCSEYRPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPYEKKAACL	150
Human	151	KEYEKDIAAYRAKGKPDAAKKGVVKAESKKKKKEEEDEEDEDEDEDEDEDE	200
Porcine	151	KEYEKDIAAYRAKGKPDAAKKGVVKAESKKKKKEEEDEEDEDEDEDEDEDE	200
Bovine	151	KEYEKDIAAYRAKGKPDAAKKGVVKAESKKKKKEEEDEEDEDEDEDEDEDE	200
Rat	151	KEYEKDIAAYRAKGKPDAAKKGVVKAESKKKKKEEEDDEEDEDEDEDEDEDE	200
Human	201	DEEDEDEEEDDDDE	214
Porcine	201	DEEDEDEEEDDDDE	214
Bovine	201	DEEDEDEEEDDDDE	214
Rat	201	EEEDEDEEEDDDDE	214

Comparison among human, porcine, bovine and rat HMG-1
 "I" indicates the same amino acid with that of human HMG-1.

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FIG. 16

Human	1	GKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNF	AEFSKKCSERWKT	50
Porcine	1	GKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNF	AEFSKKCSERWKT	50
Bovine	1	GKGDPNKPRGKMSSYAFFVQTSREEHKKKHPDASVNF	---S---ERWKT	50
Rat	1	GKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNF	AEFSKKCSERWKT	50
Human	51	MSAKEKSKFEDMAKSDKARYDREMKNYVPPKGDKKGKKKDPNAPKRPPSA		100
Porcine	51	MSAKEKSKFEDMAKSDKARYDREMKNYVPPKGDKKGKKKDPNAPKRPPSA		100
Bovine	51	MSAKEKSKFEDMAKSDKARYDREMKNYVPPKGDKKGKKKDPNAPKRPPSA		100
Rat	51	MSAKEKSKFEDLAKSDKARYDREMKNYVPPKGDKKGKKKDPNAPKRPPSA		100
Human	101	FFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAKL		150
Porcine	101	FFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAKL		150
Bovine	101	FFLFSAEHRPKIKAEHPGLSIGDTAKKLGEMWSQQSAKDKQPYEQKASKL		150
Rat	101	FFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAKL		150
Human	151	KEKYEKDIAAYRAKKGSEAGKKGPRPTGSKKKNEPEDEEEEEEE-DED		199
Porcine	151	KEKYEKDIAAYRAKKGSEAGKKGPRPTGSKKKNEPEDEEEEEEEDEDED		200
Bovine	151	KEKYEKX-AAYRAKKGSEAGKKGPRPTGSKKKNEPEDEEEEEEE.....		200
Rat	151	KEKYEKDIAAYRAKKGSEVGGKGPGRPTGSKKKNEPEDEEEEEEEDEDED		200
Human	200	EEEEDEDEE	208	
Porcine	201	EEEEDEDEE	209	
Bovine	201	EEEEDEDEE		
Rat	201	EEEEDEDEE	209	

Comparison among human, porcine, bovine and rat HMG-2
 "I" indicates the same amino acid with that of human HMG-2.

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